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# RAW SEQUENCE LISTING PATENT APPLICATION US/09/302,239

DATE: 05/10/1999

TIME: 12:32:16

Input Set: I302239.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Nelstuen, Gary L.  
2 <120> TITLE OF INVENTION: MODIFIED VITAMIN K-DEPENDENT  
3 POLYPEPTIDES  
4 <130> FILE REFERENCE: 09531/002001  
5 <140> CURRENT APPLICATION NUMBER: US/09/302,239  
6 <141> CURRENT FILING DATE: 1999-04-29  
7 <160> NUMBER OF SEQ ID NOS: 18  
8 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
9 <210> SEQ ID NO 1  
10 <211> LENGTH: 44  
11 <212> TYPE: PRT  
12 <213> ORGANISM: Homo sapiens  
13 <220> FEATURE:  
14 <221> NAME/KEY: MOD\_RES  
15 <222> LOCATION: (0)...(0)  
16 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
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19 1 5 10 15  
W--> 20 Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa Ala Lys Xaa Ile Phe Gln  
21 20 25 30  
22 Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His  
23 35 40  
24 <210> SEQ ID NO 2  
25 <211> LENGTH: 44  
26 <212> TYPE: PRT  
27 <213> ORGANISM: Bos taurus  
28 <220> FEATURE:  
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30 <222> LOCATION: (0)...(0)  
31 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
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W--> 33 Ala Asn Ser Phe Leu Xaa Xaa Leu Arg Pro Gly Asn Val Xaa Arg Xaa  
34 1 5 10 15  
W--> 35 Cys Ser Xaa Xaa Val Cys Xaa Phe Xaa Xaa Ala Arg Xaa Ile Phe Gln  
36 20 25 30  
W--> 37 Asn Thr Xaa Asp Thr Met Ala Phe Trp Ser Phe Tyr  
38 35 40  
39 <210> SEQ ID NO 3  
40 <211> LENGTH: 44  
41 <212> TYPE: PRT  
42 <213> ORGANISM: Homo sapiens  
43 <220> FEATURE:  
44 <221> NAME/KEY: MOD\_RES

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45 <222> LOCATION: (0)...(0)  
46 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
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49 1 5 10 15  
W--> 50 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys  
51 20 25 30  
W--> 52 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr  
53 35 40  
54 <210> SEQ ID NO 4  
55 <211> LENGTH: 44  
56 <212> TYPE: PRT  
57 <213> ORGANISM: Bos taurus  
58 <220> FEATURE:  
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60 <222> LOCATION: (0)...(0)  
61 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
62 <400> SEQUENCE: 4  
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64 1 5 10 15  
W--> 65 Cys Arg Xaa Xaa Leu Cys Ser Phe Xaa Xaa Ala His Xaa Ile Phe Arg  
66 20 25 30  
W--> 67 Asn Xaa Xaa Arg Thr Arg Gln Phe Trp Val Ser Tyr  
68 35 40  
69 <210> SEQ ID NO 5  
70 <211> LENGTH: 45  
71 <212> TYPE: PRT  
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74 <221> NAME/KEY: MOD\_RES  
75 <222> LOCATION: (0)...(0)  
76 <223> OTHER INFORMATION: Xaa=gamma carboxyglutamic acid or glutamic acid  
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79 1 5 10 15  
W--> 80 Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe  
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83 35 40 45  
84 <210> SEQ ID NO 6  
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W--> 93 Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val Gln Gly Asn Leu Xaa Arg  
94 1 5 10 15

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W--> 95      Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
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     125 <212> TYPE: DNA
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     127 <220> FEATURE:
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     133 <212> TYPE: DNA
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     141 <212> TYPE: DNA
     142 <213> ORGANISM: Artificial Sequence
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150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
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154     cagtgtgtca tccacatctt cgaaaatttc cttggc          36
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156 <211> LENGTH: 36
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
161 <400> SEQUENCE: 14
162     gccaaaggaaa ttttcgaaga tgtggatgac acactg          36
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164 <211> LENGTH: 36
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Protein C mutagenic oligonucleotide
169 <400> SEQUENCE: 15
170     cagtgtgtca tccacatttt cgaaaatttc cttggc          36
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W-OK 190     Xaa Cys Leu Xaa Xaa Pro Cys Ser Arg Xaa Xaa Ala Phe Xaa Ala Leu
191           20             25             30
W--> 192     Xaa Ser Leu Ser Ala Thr Asp Ala Phe Trp Ala Lys Tyr
193           35             40             45
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204 1 5 10 15  
W--> 205 Cys Leu Xaa Xaa Ala Cys Ser Leu Xaa Xaa Ala Arg Xaa Val Phe Xaa  
206 20 25 30  
W--> 207 Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser Lys Tyr  
208 35 40

Input Set: I302239.RAW

Line	? Error/Warning	Original Text
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20	W "N" or "Xaa" used: Feature required	Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa A
33	W "N" or "Xaa" used: Feature required	Ala Asn Ser Phe Leu Xaa Xaa Leu Arg Pro G
35	W "N" or "Xaa" used: Feature required	Cys Ser Xaa Xaa Val Cys Xaa Phe Xaa Xaa A
37	W "N" or "Xaa" used: Feature required	Asn Thr Xaa Asp Thr Met Ala Phe Trp Ser P
48	W "N" or "Xaa" used: Feature required	Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro G
50	W "N" or "Xaa" used: Feature required	Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa A
52	W "N" or "Xaa" used: Feature required	Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile S
63	W "N" or "Xaa" used: Feature required	Ala Asn Gly Phe Leu Xaa Xaa Leu Arg Pro G
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80	W "N" or "Xaa" used: Feature required	Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa X
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93	W "N" or "Xaa" used: Feature required	Tyr Asn Ser Gly Lys Leu Xaa Xaa Phe Val G
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97	W "N" or "Xaa" used: Feature required	Xaa Asn Thr Xaa Lys Arg Thr Thr Xaa Phe T
188	W "N" or "Xaa" used: Feature required	Ala Asn Lys Gly Phe Leu Xaa Xaa Val Arg L
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203	W "N" or "Xaa" used: Feature required	Ala Asn Ser Phe Leu Xaa Xaa Val Lys Gln G
205	W "N" or "Xaa" used: Feature required	Cys Leu Xaa Xaa Ala Cys Ser Leu Xaa Xaa A
207	W "N" or "Xaa" used: Feature required	Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser L